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# Lock Mechanism Design

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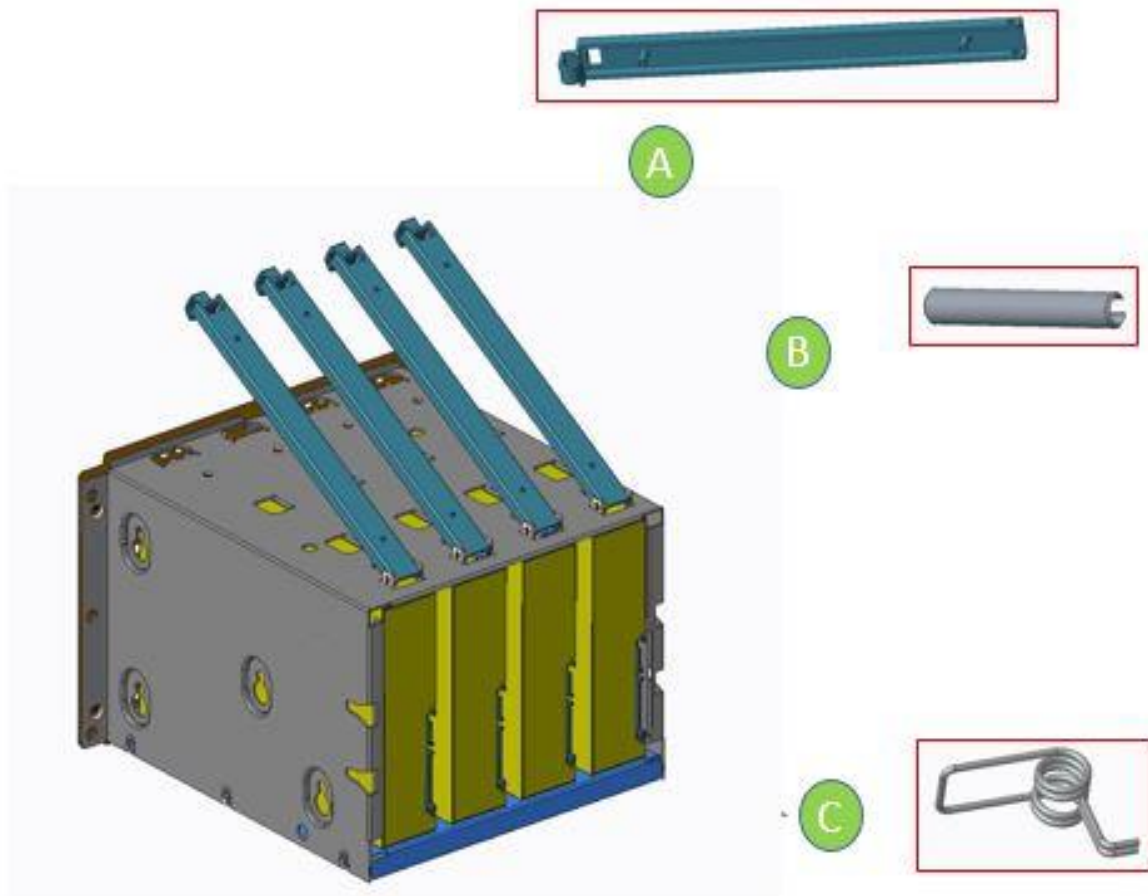
# Lock Mechanism Design

## Abstract:

This innovation provides an opportunity for HDDs to be installed into the NHP cage with a tool-less design.

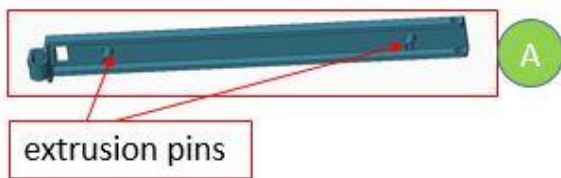
## The innovation description and composition components

The main components are plastic latch (A), C-shaped pin (B) and spring (C).

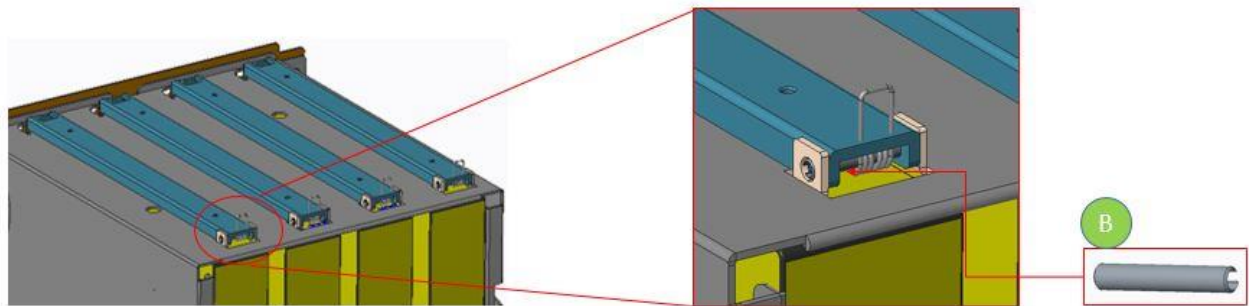




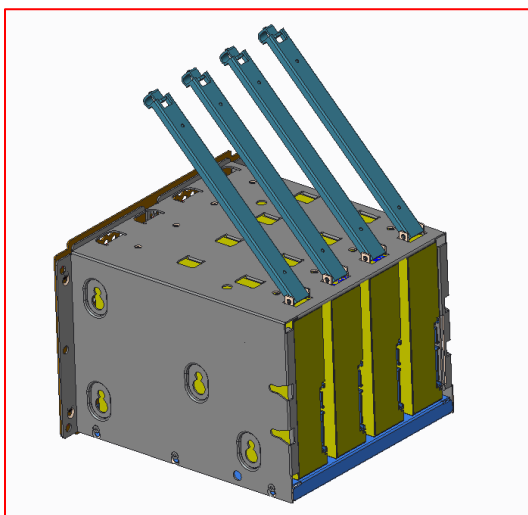
Plastic latch (A) includes 2 extrusion pins that may latch into the holes of the HDDs to limit the HDDs or, in other words, lock the HDDs in place.



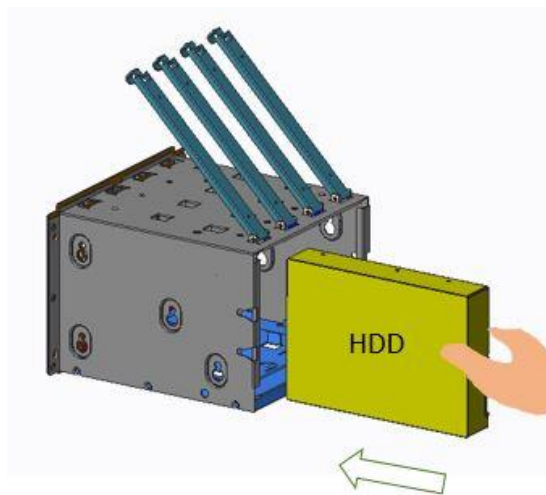
C-shaped pin (B) can limit the movement of plastic latch (A).



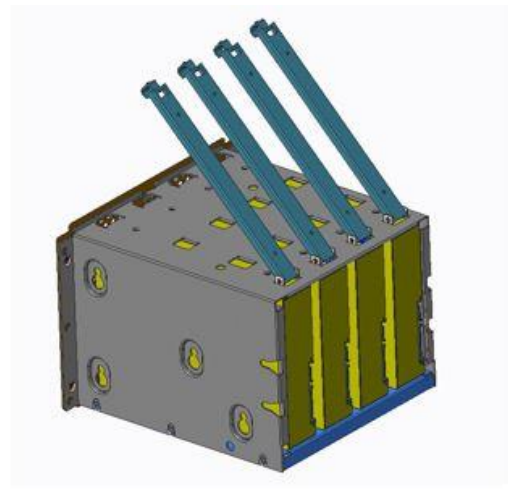
Spring (C), could be assembled onto the pin and could limit the plastic latch( A) to keep an open status while the latch is released. This would allow the user to smoothly install the HDD into the HDD cage.



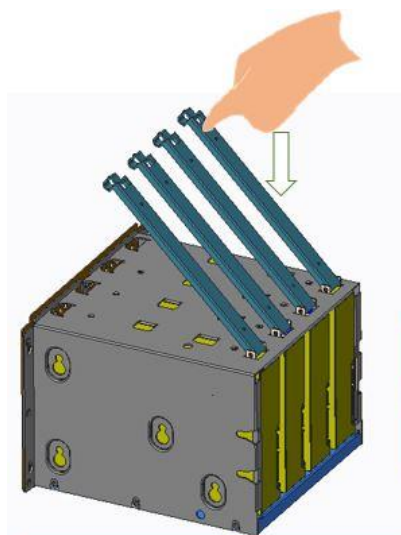
## Installing sequence



Step 1:  
Install the HDD into the HDD cage

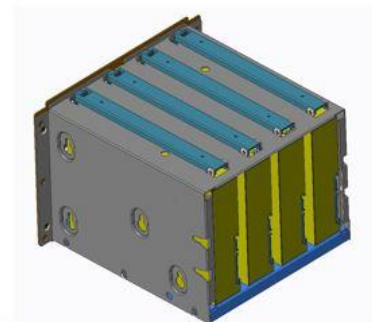
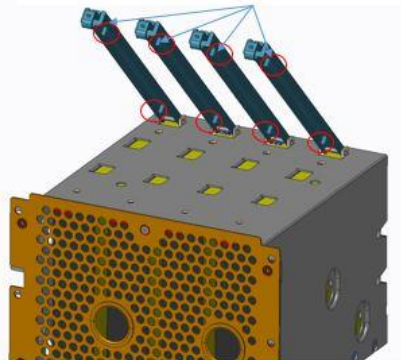


Step 2:  
HDD inserted into the HDD cage



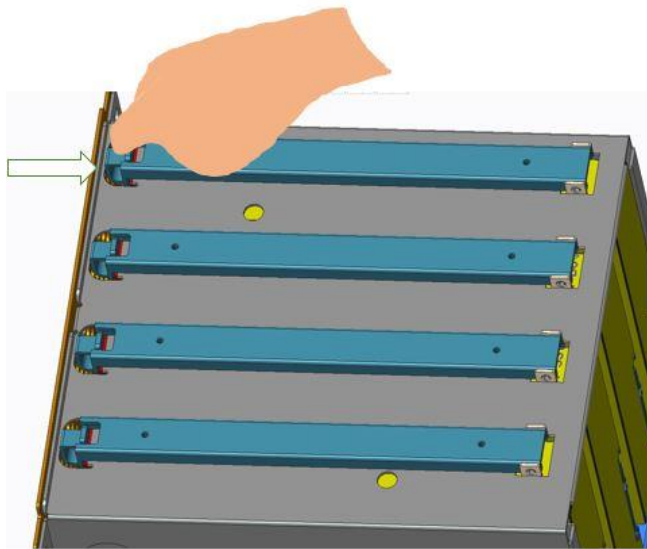
Step 3:  
Push down the plastic latches to hold the HDD in place

The extrusion pins could latch into the hole of an HDD to limit the HDD or lock the HDD in place

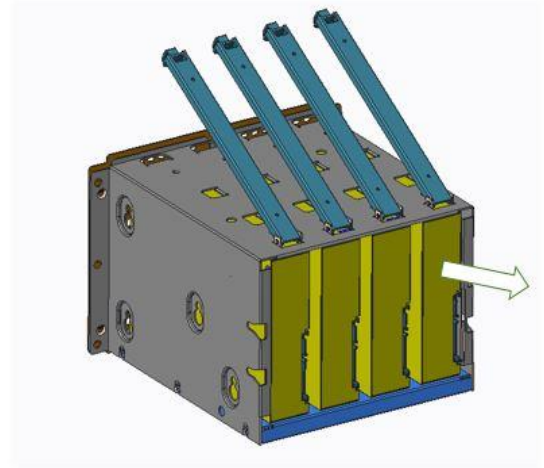


Step 4:  
The plastic latches in a locked position to hold the HDD in place

## Releasing sequence



Step 1:  
Push the plastic latch to release



Step 2: Take the HDD out of HDD cage